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TITLE: HYDRAULIC BRAKE DEVICE FOR  
VEHICLE

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## ABSTRACT:

**PROBLEM TO BE SOLVED:** To provide a hydraulic brake device for a vehicle capable of adjusting the hysteresis width in a brake pedal tread force - a brake liquid pressure characteristic.

**SOLUTION:** This hydraulic brake device for the vehicle comprises a power chamber pressure sensor 29 for detecting a liquid pressure  $P_p$  in a power chamber 21, a reaction force chamber pressure sensor 30 for detecting a liquid pressure  $P$  in a reaction force chamber 18, a tread force sensor 29 for detecting a tread force of a brake pedal operation, and a reaction force chamber pressure adjusting means (always closing linear solenoid valves 12 and 13) capable of adjusting the reaction force chamber pressure  $P$  using a high pressure generated by a liquid pressure generating means 11. The reaction force chamber pressure adjusting means controls the reaction force chamber pressure  $P$  equal to the power chamber pressure  $P_p$



when determining that a brake liquid pressure  $P_m$  is increased or held based on the output result of the tread force sensor 29. The adjusting means controls the reaction force chamber pressure  $P$  to be a predetermined pressure higher than the power chamber pressure  $P_p$  when determining that the brake liquid pressure  $P_m$  is reduced based on the output result of the tread force sensor 29 in an initial stage.

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